

Listing of Claims

28. (Currently Amended) An extruded high performance, chemical resistant hose capable of withstanding temperatures up to about 300° F, for prolonged periods of time, said extruded high performance chemical resistant hose having a matrix comprising a thermoplastic vulcanizate comprising:

1) a thermoplastic polyurethane in an amount of about 30 to 70 weight % of said thermoplastic vulcanizate;

2) a chlorine-containing polyolefin in the amount of about 70 to 30 weight % of said thermoplastic vulcanizate, wherein said chlorine-containing polyolefin is a mixture of two or more member members selected from the group consisting of A, B, C, D, E, and F, wherein

A is chlorinated polyethylene,

B is chlorinated polypropylene,

C is chlorinated copolymers of ethylene and propylene,

D is chlorosulfonated polyethylene,

E is chlorosulfonated polypropylene, and

F is chlorosulfonated copolymers of ethylene and propylene

~~Chlorinated polyethylene, chlorinated polypropylene, chlorinated copolymers of ethylene and propylene, chlorosulfonated polyethylene, chlorosulfonated polypropylene, and copolymers of chlorosulfonated ethylene and chlorosulfonated propylene, with the proviso that mixtures of A & B; A & C; A & D; B & C; B & D; C & D; A, B & C; A, B & D; A, C & D; and A, B, C & D chlorinated polyethylene and chlorosulfonated polyethylene; mixtures of chlorinated polyethylene, chlorinated polypropylene and chlorinated copolymers of ethylene and propylene; and mixtures of chlorosulfonated polyethylene, chlorosulfonated polypropylene; and chlorosulfonated copolymers of ethylene and propylene are excluded; and~~

3) a crosslinking agent,

wherein said high performance engineering thermoplastic polyurethane is crosslinked in said matrix.

29. (Canceled)

30. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorosulfonated polyethylene and chlorosulfonated polypropylene.

31. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorinated polyethylene and chlorosulfonated polypropylene.

32 - 35 (Canceled)

36. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorosulfonated polypropylene and a chlorinated copolymer of ethylene and propylene.

37. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorinated polyethylene and a chlorosulfonated copolymer of ethylene and propylene.

38. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorinated polypropylene and a chlorosulfonated copolymer of ethylene and propylene.

39. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorosulfonated polyethylene and a chlorosulfonated copolymer of ethylene and propylene.

40. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorosulfonated polypropylene and a chlorosulfonated copolymer of ethylene and propylene.

42. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said thermoplastic polyurethane is crosslinked in said matrix by dynamic vulcanization during the manufacture of said hose.

42. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said crosslinking agent is selected from the group consisting of a peroxide, an isocyanate having a functionality of more than 2.0, a polyisocyanate having a functionality of more than 2.0, a polyamine containing two or more functional groups, a polyol containing two or more functional groups, and mixtures thereof.

43 - 60 (Canceled)

61. (Previously Presented) The extruded high performance, chemical resistant hose of claim 28 wherein said hose is an automotive power steering hose.

62. (New) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of chlorinated polypropylene and chlorosulfonated polypropylene.

63. (New) The extruded high performance, chemical resistant hose of claim 28 wherein said chlorinated polyolefin is a mixture of a chlorinated copolymer of ethylene and propylene and a chlorosulfonated copolymer of ethylene and propylene.